

REMARKS

The Examiner has rejected claims 1-8, 20-26 and 28 as anticipated under 35 U.S.C. Section 102(b) by U.S. Patent No. 5,018,393 to Seegers. The Examiner has further rejected claims 9-16, 19 and 27 as obvious over Seegers in view of U.S. Patent No. 2,438,288 to Jacobson. Claims 17, 18 and 29 are rejected as obvious over Seegers, Jacobson and U.S. Patent No. 5,052,232 to Garshelis.

The Examiner has also objected to claims 12 and 23 as containing informalities which Applicant corrects by this amendment.

Claims 1 of the present application requires "a magnetoelastic ring press-fit onto the inner race" of a bearing.

Seegers does not disclose the limitation of a magnetoelastic ring press fit onto a bearing inner race. The Examiner cites element 15 of Seegers as disclosing a magnetoelastic ring press fit onto a bear inner race. However in Seegers, the carrier ring 15 is not attached to a bearing inner race at all. Moreover the element 15 is not a magnetoelastic ring, but rather houses magnetic rings 13 and 14, which are not described as press fit onto anything. Therefore, Seegers does not disclose or suggest "a magnetoelastic ring press-fit onto the inner race" of a bearing and cannot anticipate claim 1.

Claims 2-8 incorporate this limitation and therefore cannot anticipate claims 2-8 for the at least the same reasons as claim 1. Moreover, claim 2 requires "the inner race is a tapered race and the magnetoelastic ring is press fit upon a journal adjacent a small end of the tapered inner race." Seegers does not disclose this limitation. Claim 3 requires "the inner race is a tapered race and the magnetoelastic ring is press fit upon a journal adjacent a large end of the tapered inner race." Seegers does not disclose this limitation. Claim 6 requires "the single unit [of an

excitation and sensing coil] is mounted within a counterbore of the outer race.” Seegers does not disclose this limitation.

Claims 20-26 and 28 also stand rejected as anticipated by Seegers. Claim 20 requires “a magnetoelastic circularly polarized ring press-fit onto the inner race.” As discussed above with respect to claim 1, Seegers does not disclose this element.

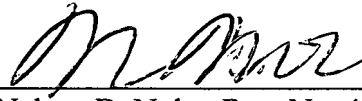
Claims 21-26 and 28 depend from claim 20 and incorporate the limitations of claim 20. As such, claims 21-26 and 28 are not anticipated by Seegers.

Claims 9-16, 19 and 27 are rejected as rendered obvious by the combination of Seegers and Jacobson. As discussed above, Seegers does not disclose or suggest “a magnetoelastic ring press-fit onto the inner race” of a bearing as in claim 1 or “a magnetoelastic circularly polarized ring press-fit onto the inner race” as in claim 20. Jacobson does not disclose or suggest this element nor does the Examiner rely on Jacobson for such a proposition. As such, claims 9-16, 19 and 27 are not rendered obvious by Seegers in view of Jacobson.

Claims 17, 18 and 29 are rejected as obvious over Seegers in view of Jacobson in further view of Garshelis. As discussed above, Seegers and Jacobson do not disclose or suggest “a magnetoelastic ring press-fit onto the inner race” of a bearing as in claim 1 or “a magnetoelastic circularly polarized ring press-fit onto the inner race” as in claim 20. Garshelis does not disclose or suggest this element nor does the Examiner rely on Garshelis for such a proposition. As such, claims 9-16, 19 and 27 are not rendered obvious by Seegers in view of Jacobson in further view of Garshelis.

Based on the foregoing, the allowance of claims 1-29 is respectfully requested. If for any reason the Examiner is unable to allow the application on the next Office Action, the Examiner is requested to contact the undersigned attorney for the purpose of arranging an interview.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'N. Nolte', written over a horizontal line.

Nelson D. Nolte, Reg. No. 42,938
Polster, Lieder, Woodruff & Lucchesi, LC
12412 Powerscourt Dr. Ste. 200
St. Louis, Missouri 63131
Tel: (314) 238-2400
Fax: (314) 238-2401